

Recombinant Human MT1A Protein (Met1-Ala61), N-His tagged

Cat. No. MT1A-3735H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MT1A (Met1-Ala61) fused with the N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ala61
Description	This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. The conserved cysteine residues co-ordinate metal ions using mercaptide linkages. These proteins act as anti-oxidants, protect against hydroxyl free radicals, are important in homeostatic control of metal in the cell, and play a role in detoxification of heavy metals. Disruption of two metallothionein genes in mouse resulted in defects in protection against heavy metals, oxidative stress, immune reactions, carcinogens, and displayed obesity.
Form	Lyophilized powder/frozen liquid
Molecular Mass	8.43 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.

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Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

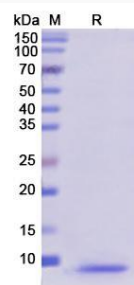
GENE INFORMATION

Gene Name	MT1A metallothionein 1A [Homo sapiens (human)]
Official Symbol	MT1A
Synonyms	MT1A; metallothionein 1A; MT1; MTC; MT1S; MT-1A; MT-IA; metallothionein-1A; metallothionein 1A (functional); metallothionein 1S; metallothionein-IA
Gene ID	4489
mRNA Refseq	NM_005946
Protein Refseq	NP_005937
MIM	156350
UniProt ID	P04731

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SDS-PAGE

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